*Acta Physiol Scand* 1997, **161**, 585–588

# Author index

Aalkjær, C. & Peng, H.-L. pH and smooth muscle, 557
Abildgaard, U. *see* Welling, K.-L. K.
Ahlborg, G. *see* Ottosson-Seeberger, A.
Albertsson, P. *see* Rundqvist, B.
Aleksandrova, N. P. & Isaev, G. G. Central and peripheral components of diaphragmatic fatigue during inspiratory resistive load in cats, 355
Alvestrand, A. *see* Ottosson-Seeberger, A.
Amrani, M. *see* Mankad, P. S.
Amtorp, O. *see* Welling, K.-L. K.
Amundsen B. *see* Semb S. O.
Andersson, E. A., Nilsson, J. & Thorstensson, A. Intramuscular EMG from the hip flexor muscles during human locomotion, 361
Aoki, K., Kondo, N., Shibasaki, M., Takano, S., Tominaga, H. & Katsuura, T. Circadian variation of sweating responses to passive heat stress, 397
Appleby, G. J. *see* Rattigan, S.
Arner, A. *see* Bentzer, P.
Arner, M. *see* Bentzer, P.
Atalay, M., Laaksonen, D. E., Niskanen, L., Uusitupa, M., Hänninen, O. & Sen, C. K. Altered antioxidant enzyme defences in insulin-dependent diabetic men with increased resting and exercise induced oxidative stress, 195

Bentzer, P., Nielsen, N., Arner, M., Danielsen, N., Ekblad, E., Lundborg, G. & Arner, A. Supersensitivity in rat microarteries after short-term denervation, 125
Berthelot, M. *see* Bigard, A. X.
Bie, P. *see* Palnæs Hansen, C.
Bigard, A. X., Serrurier, B., Merino, D., Lienhard, F., Berthelot, M. & Guezennec, C. Y. Myosin heavy chain composition of regenerated soleus muscles during hindlimb suspension, 23
Brambrink, J. K., Fluckey, J. D., Hickey, M. S. & Craig, B. W. Influence of muscle mass and work on post-exercise glucose and insulin responses in young untrained subjects, 371
Brodin, E. *see* DeLander, G. E.

Carmichael, S. W. *see* Lønning, K.
Chan, E. & Ulfendahl, M. Relationship between stiffness, internal cell pressure and shape of outer hair cells isolated from guinea-pig hearing organ, 533
Chang, H. Y. *see* Chen, C. W.
Chen, C. W., Lee, C. H., Hsiue, T. R. & Chang, H. Y. Vasomotion in rat diaphragm microcirculation at rest and during stepwise arterial pressure reduction, 281
Chen, L. *see* Tarasiuk, A.
Claassen, H. *see* Turner, D.L.
Clark, M. G. *see* Rattigan, S.
Colquhoun, E. Q. *see* Rattigan, S.
Craig, B. W. *see* Brambrink, J. K.

Danielsen, N. *see* Bentzer, P.
Danielson, B. G. *see* Metry, G.
DeLander, G. E., Schött, E., Brodin, E. & Fredholm, B. B. Spinal expression of mRNA for immediate early genes in a model of chronic pain, 517
DeLander, G. E., Schött, E., Brodin, E. & Fredholm, B. B. Temporal changes in spinal cord expression of mRNA for substance P, dynorphin and enkephalin in a model of chronic pain, 509
Denis, C. *see* Linossier, M.-T.
Dewachter, P., Vassiliou, M., Saunier, C. G., Hartemann, D., Peslin, R. & Laxenaire, M.-C. Effect of the inhibitor of NO synthase, $N^G$-nitro-L-arginine methyl ester, on histamine-induced bronchospasm in the rabbit, 47
Dézsi, L. *see* Szekeres, M.
Dora, K. A. *see* Rattigan, S.
Dormois, D. *see* Linossier, M.-T.

Eisenhofer, G. *see* Rundqvist, B.
Ekblad, E. *see* Bentzer, P.
Ekblom, B. *see* Malm, C.
Ekblom, B. *see* Schantz, P.
Emanuelsson, H. *see* Rundqvist, B.

Fändriks, L. *see* Holm, M.
Ferretti, G. *see* Turner, D.L.
Flock, Å. *see* Fridberger, A.
Flock, B. *see* Fridberger, A.
Florholmen, J. *see* Støa-Birketvedt, G.
Fluckey, J. D. *see* Brambrink, J. K.
Folkow, L. P. *see* Kvadsheim, P. H.
Fredholm, B. B. *see* DeLander, G. E.
Frey, J. *see* Linossier, M.-T.
Friber, P. *see* Rundqvist, B.
Fridberger, A., van Maarseveen, J. Th. P. W., Scarfone, E., Ulfendahl, M., Flock, B. & Flock, Å. Pressure-induced basilar membrane position shifts and the stimulus-evoked potentials in the low-frequency region of the guinea pig cochlea, 239
Fry, A. C., Staron, R. S., James, C. B. L., Hikida, R. S. & Hagerman, F. C. Differential titin isoform expression in human skeletal muscle, 473

Gao, M. *see* Suzuki, J.
Garnier, P. *see* Prioux, J.
Gazelius, B. *see* Löfgren, O.
Geyssant, A. *see* Linossier, M.-T.
Gjerde, E.-A. B., Woie, K. & Reed, R. K. CGRP, but not substance P, induces an increased negativity of the interstitial fluid pressure in rat trachea, 411
Gradin, K. Co-injections of NPY with adrenaline induces contrasting cardiovascular responses in conscious rats, 121
Grubb, A. *see* Lerner, U. H.
Grund, F., Sommerschild, H. T., Winecoff, A., Ujhelyi, M. R., Tonnessen, T., Kirkeboen, K. A., Rutlen, D. L. & Ilebekk, A. Importance of nitric oxide in hepatic arterial blood flow and total hepatic blood volume regulation in pigs, 303
Guezennec, C. Y. *see* Bigard, A. X.
Gutierrez, A. M. *see* Salomonsson, M.

Hagerman, F. C. *see* Fry, A. C.
Hand, S. C. Oxygen, $pH_i$ and arrest of biosynthesis in brine shrimp embryos, 543

© 1997 Scandinavian Physiological Society

Hänninen, O. *see* Atalay, M.
Harris, B. *see* Tonkonogi, M.
Hartemann, D. *see* Dewachter, P.
Haug, T. & Sand, O. BK-channels in intact clonal rat pituitary cells are activated by physiological elevations of the cytosolic $Ca^{2+}$ concentration at the normal resting potential, 227
Haugen S. E. & Wiik, P. Glucocorticoid and ACTH regulation of rat peritoneal phagocyte chemiluminescence and nitric oxide production in culture, 93
Hedner, T. *see* Zhang, W.
Helle, K. B. *see* Lønning, K.
Heller, H., Hoffmann, G., Schobersberger, W. & Schuster, K. -D. Effect of inhaled nitric oxide on endotoxin-induced hypoxaemia in rabbits, 311
Hickey, M. S. *see* Brambrink, J. K.
Hikida, R. S. *see* Fry, A. C.
Hjemdahl, P. *see* Lindqvist, M.
Hoffmann, G. *see* Heller, H.
Holm, M., Johansson, B., von Bothmer, C., Jönson, C., Pattersson, A. & Fändriks, L. Acid-induced increase in duodenal mucosal alkaline secretion in the rat involves thel-arginine/NO pathway, 527
Holm, S. *see* Law, I.
Hoppeler, H. *see* Turner, D.L.
Hsiue, T. R. *see* Chen, C. W.
Hydbring, E., Macdonald, E. & Olsson, K. Radiotelemetrically recorded blood pressure and heart rate changes in relation to plasma catecholamine levels during parturition in the conscious, unrestrained goat, 295

Ilebekk, A. *see* Grund, F.
Isaev, G. G. *see* Aleksandrova, N. P.
Iwao, N., Oshida, Y. & Sato, Y. Regional difference in lipolysis caused by a $\beta$-adrenergic agonist as determined by the microdialysis technique, 481

James, C. B. L. *see* Fry, A. C.
Janco, J. *see* Tarasiuk, A.
Johansson, B. *see* Holm, M.
Johansson, L. *see* Lerner, U. H.
Jönson, C. *see* Holm, M.
Jonsson, O. *see* Sorensen, V.

Karcmaker, J. M. *see* Voogel, A. J.
Katsuta, S. *see* Yasuda, T.
Katsuura, T. *see* Aoki, K.
Kayser, B. *see* Turner, D.L.
Kirkeboen, K. A. *see* Grund, F.
Kivelä, J., Parkkila, S., Metteri, J., Parkkila, A.-K., Toivanen, A. & Rajaniemi, H. Salivary carbonic anhydrase VI concentration and its relation to basic characteristics of saliva in young men, 221
Kockum, I. *see* Nilsson, B.-O.
Kondo, N. *see* Aoki, K.
Kornfeld, M. *see* Salomonsson, M.
Koyama, T. *see* Suzuki, J.
Kvadsheim, P. H. & Folkow, L. P. Blubber and flipper heat transfer in harp seals, 385

Laaksonen, D. E. *see* Atalay, M.
Langewouters, G. J. *see* Voogel, A. J.
Länne, T. & Olsen, H. Decreased capacitance response with age in lower limbs of man – a potential error in the study of cardiovascular reflexes in ageing, 503
Larsen, B. *see* Welling, K.-L. K.
Law, I., Svarer, C., Holm, S. & Paulson, O. B. The activation pattern in normal humans during suppression, imagination and performance of saccadic eye movements, 419
Laxenaire, M.-C. *see* Dewachter, P.
Lee, C. H. *see* Chen, C. W.
Lerner, U. H., Johansson, L., Ransjö, M., Rosenquist, J. B., Reinholt, F. P. & Grubb, A. Cystatin C, an inhibitor of bone resorption produced by osteoblasts, 81
Li, P.-A. & Siesjö, B. K. Role of hyperglycaemia-related acidosis in ischaemic brain damage, 567
Lienhard, F. *see* Bigard, A. X.
Linde, T. *see* Metry, G.
Lindinger, M. I. *see* Welsh, D. G
Lindqvist, M., Melcher, A. & Hjemdahl, P. Attenuation of forearm vasodilator responses to mental stress by regional beta-blockade, but not by atropine, 135
Linossier, M.-T., Dormois, D., Perier, C., Frey, J., Geyssant, A. & Denis, C. Enzyme adaptations of human skeletal muscle during bicycle short-sprint training and detraining, 439
Löfgren, O., Gazelius, B. & Lundeberg, T. Acute microcirculatory changes after scalding of the rat paw, 289
Lønning, K., Carmichael, S. W. & Helle, K. B. The adrenal medulla as a wet sponge: a role for the intramedullary venous vasculature?, 151
Løvhaug, N. *see* Støa-Birketvedt, G.
Lundberg, J. M. *see* Malmström, R. E.
Lundberg, J. M. *see* Ottosson-Seeberger, A.
Lundborg, G. *see* Bentzer, P.
Lundeberg, T. *see* Löfgren, O.

Macdonald, E. *see* Hydbring, E.
Machkov, V. V., Tarasova, O. S., Timin, E. N. & Rodionov, I. M. Effect of noradrenaline on tail arteries of SHR and WKY under perfusion at constant flow and constant pressure, 41
Magnusson, M. *see* Salomonsson, M.
Malm, C., Svensson, M., Ekblom, B. & Sjödin, B. Effects of ubiquinone-10 supplementation and high intensity training on physical performance in humans, 379
Malmström, R. E. & Lundberg, J. M. Time-dependent effects of ischaemia on neuropeptide Y mechanisms in pig renal vascular control *in vivo*, 327
Mankad, P. S., Amrani, M., Rothery, S., Severs, N. J. & Yacoub, M. H. Relative susceptibility of endothelium and myocardial cells to ischaemia-reperfusion injury, 103
Mathai, M. L., Pennington, G. L. & McKinley, M. J. The effect of angiotensin $AT_1$ receptor blockade in the brain on the maintenance of blood pressure during haemorrhage in sheep, 495
McKinley, M. J. *see* Mathai, M. L.
Melcher, A. *see* Lindqvist, M.
Mercier, B. *see* Prioux, J.
Mercier, J. *see* Prioux, J.
Merino, D. *see* Bigard, A. X.
Metry, G., Wikström, B., Linde, T. & Danielson, B. G. Gender and age differences in transthoracic bioimpedance, 171
Metsä-Ketelä, T. *see* Szekeres, M.
Metteri, J. *see* Kivelä, J.
Miller, K. A. *see* Rattigan, S.
Monos, E. *see* Szekeres, M.

© 1997 Scandinavian Physiological Society

Nielsen, N. *see* Bentzer, P.
Nilsson, B.-O., Kockum, I. & Rosengren, E. Effects of aminoguanidine andl-NAME on histamine-induced blood pressure fall in the rat, 339
Nilsson, J. *see* Andersson, E. A.
Nilsson, U. *see* Sorensen, V.
Niskanen, L. *see* Atalay, M.
Nosaka, K. *see* Yasuda, T.

Olsen, H. *see* Länne, T.
Olsson, K. *see* Hydbring, E.
Oshida, Y. *see* Iwao, N.
Ottosson-Seeberger, A., Lundberg, J. M., Alvestrand, A. & Ahlborg, G. Exogenous endothelin-1 causes peripheral insulin resistance in healthy humans, 211

Palnæs Hansen, C., Bie, P. & Stadil, F. Assessment of renal function by $^{51}$Cr-EDTA and endogenous creatinine clearances in the pig, 253
Parkkila, A.-K. *see* Kivelä, J.
Parkkila, S. *see* Kivelä, J.
Pattersson, A. *see* Holm, M.
Paulson, O. B. *see* Law, I.
Peng, H.-L. *see* Aalkjær, C.
Pennington, G. L. *see* Mathai, M. L.
Perier, C. *see* Linossier, M.-T.
Persson, A. E. G. *see* Salomonsson, M.
Peslin, R. *see* Dewachter, P.
Pettersson, S. *see* Sorensen, V.
Piehl-Aulin, K. *see* Svedenhag, J.
Prefaut, C. *see* Prioux, J.
Pretorius, P. J. *see* Voogel, A. J.
Prioux, J., Ramonatxo, M., Mercier, J., Garnier, P., Mercier, B. & Prefaut, C. Changes in maximal exercise ventilation and breathing pattern in boys during growth: A mixed cross-sectional longitudinal study, 447

Rajaniemi, H. *see* Kivelä, J.
Ramonatxo, M. *see* Prioux, J.
Ransjö, M. *see* Lerner, U. H.
Rattigan, S., Appleby, G. J., Miller, K. A., Steen, J. T., Dora, K. A., Colquhoun, E. Q. & Clark, M. G. Serotonin inhibition of 1-methylxanthine metabolism parallels its vasoconstrictor activity and inhibition of oxygen uptake in perfused rat hindlimb, 161
Ravn, J. B. *see* Welling, K.-L. K.
Reed, R. K. *see* Gjerde, E.-A. B.
Reed, R. K. *see* Woie, K.
Reinholt, F. P. *see* Lerner, U. H.
Rodionov, I. M. *see* Machkov, V. V.
Roeleveld, K., Stegeman, D.F., Vingerhoets, H.M. & Van Oosterom, A. The motor unit potential distribution over the skin surface and its use in estimating the motor unit location, 465
Rosengren, E. *see* Nilsson, B.-O.
Rosenquist, J. B. *see* Lerner, U. H.
Rothery, S. *see* Mankad, P. S.
Rundqvist, B., Eisenhofer, G., Emanuelsson, H., Albertsson, P. & Friber, P. Intracoronary blockade of angiotensin-converting enzyme in humans: interaction with cardiac sympathetic neurotransmission?, 15
Rutlen, D. L. *see* Grund, F.

Sahlin, K. *see* Tonkonogi, M.
Sakamoto, K. *see* Yasuda, T.
Salomonsson, M., Kornfeld, M., Gutierrez, A. M., Magnusson, M. & Persson, A. E. G. Effects of stimulation and inhibition of protein kinase C on the cytosolic calcium concentration in rabbit afferent arterioles, 271
Saltin, B. *see* Svedenhag, J.
Sand, O. *see* Haug, T.
Sander, M. *see* Welling, K.-L. K.
Sato, Y. *see* Iwao, N.
Saunier, C. G. *see* Dewachter, P.
Scarfone, E., *see* Fridberger, A.
Schantz, P., Sjöberg, B., Widebeck, A.-M. & Ekblom, B. Skeletal muscle of trained and untrained paraplegics and tetraplegics, 31
Scharf, S. M. *see* Tarasiuk, A.
Schena, F. *see* Turner, D.L.
Scherstén, T. *see* Sorensen, V.
Schobersberger, W. *see* Heller, H.
Schött, E. *see* DeLander, G. E.
Schuster, K. -D. *see* Heller, H.
Sejersted O. *see* Semb S. O.
Semb S. O., Amundsen B. & Sejersted O. M. A new improved way of making double-barrelled ion-selective micro-electrodes, 1
Sen, C. K. *see* Atalay, M.
Serrurier, B. *see* Bigard, A. X.
Severs, N. J. *see* Mankad, P. S.
Shibasaki, M. *see* Aoki, K.
Siesjö, B. K. *see* Li, P.-A.
Sjöberg, B. *see* Schantz, P.
Sjödin, B. *see* Malm, C.
Sjöquist, P. O. *see* Sorensen, V.
Skog, C. *see* Svedenhag, J.
Sofer, S. *see* Tarasiuk, A.
Sommerschild, H. T. *see* Grund, F.
Sorensen, V., Nilsson, U., Pettersson, S., Scherstén, T., Sjöquist, P. O., Svensson, L. & Jonsson, O. Effects of pretreatment with an indeno-indole compound on lipid peroxidation in the cortex and medulla of rabbit kidneys after ischaemia-reperfusion, 403
Stadil, F. *see* Palnæs Hansen, C.
Staron, R. S. *see* Fry, A. C.
Steen, J. T. *see* Rattigan, S.
Stegeman, D.F. *see* Roeleveld, K.
Støa-Birketvedt, G., Løvhaug, N., Vonen, B. & Florholmen, J. $H_2$-receptor antagonist reduces food intake and weight gain in rats by non-gastric acid secretory mechanisms, 489
Stok, W. J. *see* Voogel, A. J.
Sun, X. *see* Zhang, W.
Sundler, R. Lysosomal and cytosolic pH as regulators of exocytosis in mouse macrophages, 553
Suzuki, J., Gao, M., Xie, Z. & Koyama, T. Effects of the $\beta_2$-adrenergic agonist clenbuterol on capillary geometry in cardiac and skeletal muscles in young and middle-aged rats, 317
Svarer, C., *see* Law, I.
Svedenhag, J., Piehl-Aulin, K., Skog, C. & Saltin, B. Increased left ventricular muscle mass after long-term altitude training in athletes, 63
Svensson, L. *see* Sorensen, V.
Svensson, M. *see* Malm, C.
Szekeres, M., Dézsi, L., Monos, E. & Metsä-Ketelä, T. Effect of a new nitric-oxide donor on the biomechanical performance of the isolated ischaemic rat heart, 55

Takano, S. *see* Aoki, K.
Takeshima, S., Vaage, J. & Valen, G. Can reactive oxygen

© 1997 Scandinavian Physiological Society

species precondition the isolated rat heart against arrhythmias and stunning?, 263
Tarasiuk, A., Chen, L. & Scharf, S. M. Effects of periodic obstructive apnoeas on superior and inferior venous return in dogs, 187
Tarasiuk, A., Janco, J. & Sofer, S. Effects of scorpion venom on central and peripheral circulatory response in an open-chest dog model, 141
Tarasova, O. S. *see* Machkov, V. V.
Thorén, P. *see* Zhang, W.
Thorstensson, A. *see* Andersson, E. A.
Timin, E. N. *see* Machkov, V. V.
Toivanen, A. *see* Kivelä, J.
Tominaga, H. *see* Aoki, K.
Tonkonogi, M. & Sahlin, K. Rate of oxidative phosphorylation in isolated mitochondria from human skeletal muscle: effect of training status, 345
Tonkonogi, M., Harris, B. & Sahlin, K. Increased activity of citrate synthase in human skeletal muscle after a single bout of prolonged exercise, 435
Tonnessen, T. *see* Grund, F.
Turner, D.L., Hoppeler, H., Claassen, H., Vock, P., Kayser, B., Schena, F. & Ferretti, G. Effects of endurance training on oxidative capacity and structural composition of human arm and leg muscle, 459

Ujhelyi, M. R. *see* Grund, F.
Ulfendahl, M. *see* Chan, E.
Ulfendahl, M. *see* Fridberger, A.
Uusitupa, M. *see* Atalay, M.

Vaage, J. *see* Takeshima, S.
Valen, G. *see* Takeshima, S.
van Maarseveen, J. Th. P. W. *see* Fridberger, A.
van Montfrans, G. A. *see* Voogel, A. J.
Van Oosterom, A. *see* Roeleveld, K.
Vassiliou, M. *see* Dewachter, P.
Vingerhoets, H.M. *see* Roeleveld, K.
Vock, P. *see* Turner, D.L.
von Bothmer, C. *see* Holm, M.
Vonen, B. *see* Støa-Birketvedt, G.
Voogel, A. J., Stok, W. J., Pretorius, P. J., van Montfrans, G. A., Langewouters, G. J. & Karemaker, J. M. Circadian blood pressure and systemic haemodynamics during 42 days 6° head-down tilt, 71

Wada, M. *see* Yasuda, T.
Welling, K.-L. K., Sander, M., Ravn, J. B., Larsen, B., Abildgaard, U. & Amtorp, O. Effect of alveolar hypoxia on segmental pulmonary vascular resistance and lung fluid balance in dogs, 177
Welsh, D. G & Lindinger, M. I. Metabolite accumulation increases adenine nucleotide degradation and decreases glycogenolysis in ischaemic rat skeletal muscle, 203
Widebeck, A.-M. *see* Schantz, P.
Wiik, P. *see* Haugen S. E.
Wikström, B. *see* Metry, G.
Winecoff, A. *see* Grund, F.
Woie, K. & Reed, R. K. Alloxan diabetes abolishes the increased negativity of interstitial fluid pressure in rat trachea induced by vagal nerve stimulation, 113
Woie, K. *see* Gjerde, E.-A. B.

Xie, Z. *see* Suzuki, J.

Yacoub, M. H. *see* Mankad, P. S.
Yasuda, T., Sakamoto, K., Nosaka, K., Wada, M. & Katsuta, S. Loss of sarcoplasmic reticulum membrane integrity after eccentric contractions, 581

Zhang, W., Sun, X., Zhao, X., Thorén, P. & Hedner, T. Effects of hydralazine on renal sympathetic nerve activity in normal and congestive heart failure rats, 7
Zhao, X. *see* Zhang, W.

© 1997 Scandinavian Physiological Society

*Acta Physiol Scand* 1997, **161**, 589–591

# Subject index

Acetylcholine, 303
Acid exposure, 527
Acidosis, 557, 567
ACTH, 93
Adenine nucleotide degradation, 203
Adrenaline, 135, 295
Adrenergenic β-receptor blockader, 135
Aerobic and anaerobic ability, 439
Aerobic capacity, 473
Aerobic metabolism, 345
Afferent arteriole, 271
Age, 171
Airway inflammation, 113
Alkaline phosphatase/dipeptidyl peptidase IV staining, 317
Allodynia, 517
Alveolar hypoxia, 177
Aminoguanidine, 339
Amylase, 221
Angiotensin, 495
Angiotensin II, 271
Anterior pituitary, 227
Anthropometric characteristics, 447
Antioxidant, 195
Appetite, 489
Arginine vasopressin, 495
Arterial hypertension, 41
ATP, 327, 345
Attention, 419
Autonomic nervous system, 527
Autoregressive method, 281

Bafilomycin, 553
β-adrenergic effect, 481
BIBP 326, 327
Bicarbonate, 527, 557
Bioluminescence, 345
Biopsy, 473
Biosynthesis, 543
BK channels, 227
Blood flow, 211
Blood pressure, 71, 211, 295, 339, 495
Blood volume, 63
Blood, 195
Blubber, 385
Body temperature, 397
Bone, 81
Bovine adrenal medulla, 151
Bradykinin, 55
Breathing pattern, 447
Buffer capacity, 221

$Ca^{2+}$-activated $K^+$ channels, 227
Calcitonin gene-related peptide, 125
Calcium, 125, 271
Calibration, 1
Capacitance, 503
Capillaries, 31
Capillarity, 317
Capillary filtration, 503
Capillary permeability-surface area, 177
Capillary pressure, 177
Capsaicin, 411
Carbonic anhydrase, 221
Cardiac function, 263
Cardiac ischaemia, 55
Cardiac output, 71, 141, 187
Cardiac size, 63
Cardiorespiratory interactions, 187
Cell-attached patch, 227
Central sudomotor activity, 397
Cerebral blood flow, 419
Cerebral ischaemia, 567
Chemiluminescence, 93
Children, 447
Cholinergic blocking agents, 135
Chrome edetic acid, 253
Chronic pain, 509
Cimetidine, 489
Circadian, 71
Circadian variation, 397
Citrate synthase, 345
Clenbuterol, 317
Cochlea, 533
Cochlear microphonics, 239
Conduction, 385
Confocal microscopy, 239
Congestive heart failure, 7
Constant flow perfusion, 41
Constant pressure perfusion, 41
Control of breathing, 355
Convection, 385
Coronary circulation, 263
Cycling sprint training, 439
Cystatins, 81
Cysteine proteinases, 81
Cytoskeleton, 473
Cytosolic $Ca^{2+}$ concentration, 227

Denervation, 125
Detraining, 439
Dexamethasone, 553
Dextran, 113
Diabetes, 113
Diamine oxidase, 339
Diaphragmatic fatigue, 355
Double-barrelled ion-selective micro-electrodes, 1
Duodenum, 527
Dynorphin, 509

Electromyography, 465
Enalaprilat, 15
Endothelial function, 103
Endothelins, 151, 211
Endotoxaemia, 311
Enkephalin, 509
Enteric nerves, 527
Equipment design, 1

© 1997 Scandinavian Physiological Society

Erythrocyte, 195
*Escherichia coli*, 311
ETa-receptor, 151
Ethanol technique, 481
Euglycaemic clamp, 211
Extravascular lung water, 177

Facilitation, 151
Famotidine, 489
Females, 171
Fibre type, 473
Fibre types, 31
Fingers, 71
Flippers, 385
Flow distribution, 161
Force–velocity test, 439
Fos, 517
Free radical, 195
Frontal eye fields, 419
Fura-2, 271

Gene expression, 517, 543
GH cells, 227
Glomerular filtration rate, 253
Glucocorticoid, 93
Glucose uptake, 211
Glutathione, 195
Glycerol, 481
Glyceryl nitrate, 303
Glycogenolysis, 203
Glycolytic enzymes, 31
Goat, 295
Growth, 447

Haemodynamics, 71
Haemorrhage, 495
Haemorrhagic, 281
Head-down tilted bedrest, 71
Hearing, 533
Heart, 15
Heart rate, 63, 295
Heat loss, 385
Hepatic arterial buffer response, 303
Hepatic arterial flow, 303
Hepatic venous pressure, 303
Histamine, 339
Histamine-induced bronchospasm, 47
Histochemistry, 473
Human muscle enzyme, 439
Human skeletal muscle, 31
Human, 15, 71, 221, 345
Humans, 503
Hydralazine, 7
Hydrogen peroxide, 263
Hypercapnia, 557
Hyperglycaemia, 567
Hypotension, 281
Hypoxaemia, 311
Hypoxia, 203

Iliopsoas, 361
Immunohistochemistry, 23
*In situ* hybridization, 517
Indeno-indole compound, 403
Insulin clearance, 371
Insulin resistance, 211
Interstitial fluid pressure, 113
Intestinal secretion, 527
Intracellular pH, 543
Intramuscular pH, 203
Inulin clearance, 253
Ions, 1
Ion-selective electrodes, 1
Ischaemia, 103, 203, 263, 327
Ischaemia-reperfusion, 403

Jaffé, 253
Jun, 517

Kidney, 327, 403

Lactate, 203
Langendorff rat heart, 55
Laser Doppler flowmetry, 281, 289
LBNP, 503
Left ventricle, 317
Lipid peroxidation, 195, 403
Lipolysis, 481
L-NAME, 339
Local blood flow, 481
Local sweating rate, 397
Locomotion, 361
Lysosomal pH, 553

Macrophages, 93
Males, 171
Maximal exercise, 447
Maximal inspiratory and expiratory pressures, 447
Maximal oxygen consumption, 459
Maximal oxygen uptake, 63
Mean arterial blood pressure, 289
Mean circulatory pressure, 141
Mechanical stretch, 151
Mechanical, 533
Ménière's disease, 239
Metabolic depression, 543
Methods, 1
Micro-arteries, 125
Microcirculation, 289
Microdialysis, 481
Micro-electrodes, 1
Mitochondria, 345, 459, 543
Morphology, 103
Motor control, 361
Motor neurons, 517
Motor unit location, 465
mRNA stability, 543
Mucosal protection, 527
Muscle coordination, 361
Muscle oxidative capacity, 459
Muscle regeneration, 23
Muscle, 503
Muscular endurance, 473
Muscular strength, 473
Myocardial function, 103
Myocardium, 55
Myogenic response, 41
Myosin ATPase, 473
Myosin heavy chain, 473
Myosin heavy chain isoforms, 23
Myotoxins, 23

© 1997 Scandinavian Physiological Society

Nerve injury, 509, 517
Neurogenic inflammation, 113, 289, 411
Neuronal damage, 567
Neuropeptide Y, 125, 151, 327
Neuropeptides, 411
$N^G$-nitro-L-arginine methyl ester, 47
Nitric oxide, 93, 303, 339, 527, 557
Nitric oxide donor, 55
Nitric oxide inhalation, 311
Non-linearities, 239
Non-nutritive flow, 161
Noradrenaline, 15, 135, 295
Noradrenaline and chelerytrine, 271
Notexin, 23
Nutrient access, 161
Nutritive flow, 161

Obesity, 489
Obstructive apnoeas, 187
Oedema, 289
Omeprazole, 489
One-legTW, 371
Organ of Corti, 239
Osteoclasts, 81
Outer hair cell, 533
Oxidative enzymes, 31
Oxidative phosphorylation, 345
Oxidative stress, 195
Oxygen free radicals, 47
Oxygen sensing, 543
Oxygen utilization, 345

Paraplegia, 31
Parturition, 295
pH, 221, 567
Phenylephrine, 125
Physical conditioning, 31
Physical performance, 379
Physical training, 379
Pig, 303
Plasma nitrite concentration, 311
Portal vein flow, 303
Positron emission tomography, 419
Post-exercise, 371
Potassium, 125
Pre- to postcapillary resistance, 177
Pressure, 239, 533
Prostaglandin, 557
Protein kinase C, 271, 553
Protein, 473
Psychological stress, 135
Pulmonary diffusing capacity for nitric oxide, 311

Rabbit, 47, 311
Radiotelemetry, 295
Ranitidine, 489
Rat heart, 103
Reactive species, 195
Redox, 195
Renal sympathetic nerve activity, 7
Renin, 495
Renin-angiotensin, 15
Reperfusion, 55, 263
Resistive load, 355
Respiratory muscle, 281, 355

Saccade, 419
Saliva, 221
Scalding, 289
Scorpion venom, 141
Seals, 385
Secretion, 221, 553
Sensory nerve, 411
Sex, 171
Shape, 533
Shock, 495
SHR, 41
Skeletal muscle, 135, 161, 211, 317, 473
Skin, 503
Slow-twitch muscle, 23
Smoking, 221
Smooth muscle, 151
Spinal cord, 509, 517
Stiffness, 533
Stunning, 263
Subcutaneous adipose tissue, 481
Substance P, 509
Succinate dehydrogenase, 317
Summating potential, 239
Supersensitivity, 125
Surface EMG, 465
Sweat gland function, 397
Sympathetic nervous system, 15
System, 15

Tachyphylaxis, 151
Tail artery, 41
TBARS, 403
Tetraplegia, 31
Thermoregulation, 385
Thyroliberin, 227
Total haemoglobin, 63
Total peripheral resistance, 71
Translation, 543
Transthoracic bioimpedance, 171
Two-leg vs. one-leg, 371

Ubiquinone-10, 379
Unloading, 23
Uptake area, 465

Vagotomy, 7
Vascular resistance, 135
Vascular smooth muscle, 125
Vasoconstriction, 327
Vasoconstrictors, 161
Vasospasm, 125
V-ATPase, 553
Vein, 503
Venous return, 141, 187
Ventricular fibrillation, 263
Visceral adipose tissue, 481

Weight regulation, 489

$Y_1$ receptor antagonist, 327

© 1997 Scandinavian Physiological Society